## Layout Verification and Archive Signoff

Objective: Completing this signoff determines the readiness of a design for mask procurement and archive. This form should be completed after final verification has been run..

1	Number (i.e. 773) 887A	Die Revision (i.e. B)	Wafer Fab Process Flow (i.e. ABC)	MOS)
	All Layer Rev	rision: [ 🗸	<sup>†</sup> Partial Layer Revision: [	]
С	Cadlib Process: 🔼	40 OPTM	Cadlib Version: 20	
† <sub>^</sub>	lote: Partial layer re	visions require an XOR jo	b to verify that no other layers were mod	lified.
1.0 I	List Instance Ma	asters Run	Run Date: 5-17-02	_
	Design Rule Che	eck rs have been generated	Run Date: 5-14-02 and placed.	=
$S\epsilon$	elf-Intersecting and D	iscarded geometries CAN	are reported in the <jobname>.err file. INOT be signed off. They must be fixed.</jobname>	
2.1	Non-45, Off grid or A Comment/Action:	Acute angle geometries?  ESO CE//S  POWER-NOTO, A	AESO_SMALL_SR ,AESO_SMALL_SR-A, ESO_NSR,ESO,ESO_A	Y[√N[÷] n/a[ ]
	Run "listdre" on the  Were there any violat Design Engineer: Process Engineer:	sjobname>.sum file and inclion?; If YES, have the appro	ude the printout.	Y[VN[]n/a[]
2.3		ropriate people sign off:		Y[]N[叶n/a[]·
	•	chematic Ru ayers have been genera	in Date: 5-14-02	<u>.</u>
3.1	If yes, include copy of	ECTIVITY violations? Livs file and get appropriate	c sign off:	Y[]N[✓] n/a[]
DM-60	003 REV. B PAG	GE 2 of 3		



CODE IDENT NO.

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•••	F	FOR REVISION DETAILS AND APPROVALS SEE EC
3.2	Were there any SIZE violations?  If yes, include copy of .1vs file and get appropriate sign off: Design Engineer: CAD Engineer: Comment/Action:	Y[]N[/]n/a[]
3.3	Has NETLIST been MODIFIED? If modified, have appropriate people sign off: Design Engineer: CAD Engineer: Comment/Action:	Y[]N[灯n/a[]
4.0	XOR - required on partial revisions. Run Date:	
4.1	Was XOR run on old and new gin files? Run "listdre" on the <jobname>.sum file and include printout.</jobname>	Y[]N[]n/a[~
5.0	Assembly Check	
5.1	Were the guidelines contained in ADI-0017 (Assembly Design Rules) followed du and layout?  Note: If the answer is no, please contact Assembly Engineering to arrange a design Comment/Action:	
5.2	Was ADI Bond used to optimize bond pad placement? Comment/Action:	Y[·]N[V] n/a[]
6.0 A	Archive Prep	
6.1	Was archive tar file created?	
Design for arc	n/Layout is responsible for creating a compressed tar file of the design thiving. The tar file should include:	Y[]N[]n/a[]
• 4	All Cadence libraries referenced by the design (Excluding CADLIB supplied process and standard cell libraries) All TC schematics used for simulation and verification. Verilog/Synopsis files. Verification directories, these are normally located in your project directory.	s libraries .
file. Th	is a skill routine "Create Archive Script" available to help create an arc ne skill routine will write a unix script that will create a compressed tar the user.	chive tar file when
7.0 S	ignature Approval	
Layout l Design I		
	Date: 5/1	



C

CODE IDENT NO.

24355

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## Foundry Mask Engineering

Product Definition Die Finish Mask Procurement DA

Database - Database Delait & Status Stepping Pitch Review & Submit

Foundry: TSMC		Selection a Administration of Selection
ECN	Device Name	Manufacturing
Date: 04/30/2002	Foundry: TMG285	Process: 0.35C2P3M33.00
Originator: Sandra	Rev: A	FAB: FABWT(Wafertech)
Ireland	ADI: AD9887A	
Number: TOD 1378	Rev: -	

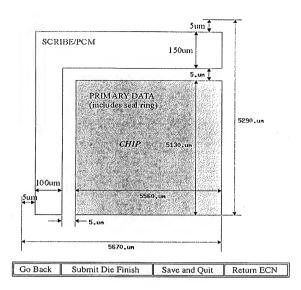
Please review the following information. If you need to make modifications use the "Back" button to return to the previous page. Otherwise, press the "Complete Die Finish" button located at the bottom of the screen.

CADLIB or the Techfile path/name:	L40DPTM
Primary Cell Name:	9887a
Primary Cell Coord. (um):	XLL = -2780 YLL = -2565 XUR = 2780 YUR = 2565
Scribe:	08x08 001/011

DRC Status:	Violations With CAD Sign-off
Are you using 3rd party IP/Libraries on this product?	No
Is the metal and poly density satisfied?	Yes
Are metal fuses being used?	No
Seal-Ring Status:	Seal-Ring Complete Complete-ADI Seal-Ring: (Spec/Rev:) L40DPTM
Mask Procurement Engineer:	Mohamed Mohamedi
Comments	

Chip Size	(with Seal Ring)	Ste	pping Pitch
X(um):	5560.	X(um):	5670.
Y(um):	5130.	Y(um):	5290.

Exhibit 5
Serial No. 10/717,394
page 3 of 46



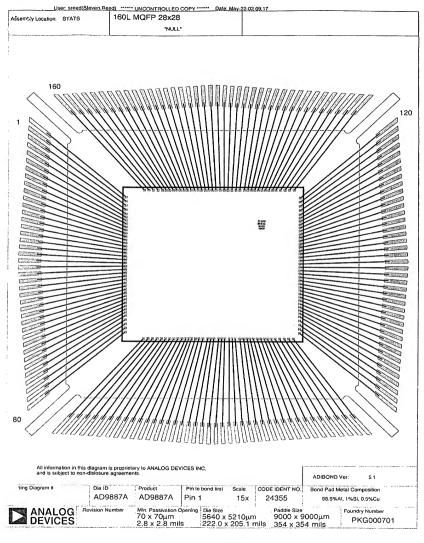
Projects/ad 9887A/vanhoy/autonoute
HOCP\_TMBS18 Used in the 9887A

Projects/ad 9887A/sreed/Auto route
eco3 control/Logic Top US-U in the 9887A

Autoroute Notes craftsman

Projects/acl9887A/Vunhay

140\_dptm\_44. rules 9887.do



User: sreed(Steven Reed) \*\*\*\*\*\* UNCONTROLLED COPY \*\*\*\*\* Date: May-22-02 09:17 160L MQFP 28x28 Assembly Location: STATS "NULL"

BOND WIRE STATISTICS

\_\_\_\_\_\_ Product (Generic) Number(s): AD9887A

Die ID: AD9887A

Package ID: 160MOFP701

Wire Type: Gold

Package Capability: SBGA, PBGA, LOFP, MOFP Max Allowed Wire Length: 4570( 179.92 )

Wire Diameter: 30(1.18) Longest Wire: 3479(137.0)

Shortest Wire: 2707(106.6)

\* ADI-0017 violations are listed.

Measurements take the form: microns (mils).

BOND PAD STATISTICS 

All measurments in microns.

Min. Passivation Opening: 70x70

Min Pad Pitch: 90

All information in this diagram is proprietary to ANALOG DEVICES INC, and is subject to non-dislosure agreements.

ADIBOND Ver:

Die ID Product AD9887A AD9887A

Pin to bond first | Scale | CODE IDENT NO. Pin 1 15x 24355

Bond Pad Metal Composition 98.5%AI, 1%Si, 0.5%Cu

Revision Number

Min. Passivation Opening Die Size
70 x 70µm 5640 x 5210µm 2.8 x 2.8 mils

Paddle Size 9000 x 9000um 222.0 x 205.1 mils 354 x 354 mils

Foundry Number PKG000701

User: sreed(Steven.Reed) ...... UNCONTROLLED COPY ...... Date: May-22-02 09:17 160L MQFP 28x28 Assembly Location: STATS

Products Covered by this Document: AD9887A

## COORDINATES OF BOND PAD CENTERS

"NULL"

	===	======		======	=		
1 5	-2705,2255 -2705,1695	2	-2705,2115 -2705,1585	3 7	-2705,1975 -2705,1475	4 8	-2705,1835 -2705,1365
و	-2705,1255	10	-2705,1145	11	-2705,1035	12	-2705,925
13	-2705,815	14	-2705,705	15	-2705,595	16	-2705,485
17	-2705,375	18	-2705,265	19	-2705,155	20	-2705,45
21	-2705, -65	22	-2705,-175	23	-2705, -285	24	-2705, -395
25	-2705, -505	26	-2705,-615	27	-2705, -725	28	-2705,-835
29	-2705, -945	30	-2705,-1055	31	-2705, -1165	32	-2705, -1275
33	-2705, -1385	34	-2705,-1495	35	-2705, -1605	36	-2705,-1715
37	-2705, -1855	38	-2705,-1995	39	-2705, -2135	40	-2705, -2275
41	-2145, -2490	42	-2005, -2490	43	-1865, -2490	44	-1725,-2490
45	-1585, -2490	46	-1460, -2490	47	-1335, -2490	48	-1210,-2490
49	-1085, -2490	50	-960,-2490	51	-840, -2490	52	-750,-2490
53	-660, -2490	54	-545, -2490	55	-435, -2490	56	-315,-2490
57	-165, -2490	58	-70, -2490	59	25,-2490	60	175,-2490
61	270,-2490	62	365,-2490	63	515,-2490	64	610,-2490
65	705,-2490	66	855,-2490	67	970,-2490	68	1080,-2490
69	1170,-2490	70	1275,-2490	71	1395,-2490	72	1505,-2490
73	1615,-2490	74	1715,-2490	75	1830, -2490	76	1955,-2490
77	2095,-2490	78	2235,-2490	79	2375,-2490	80	2515,-2490
81	2705,-2300	82	2705,-2160	83	2705,-2020	84	2705,-1880
85	2705,-1740	86	2705,-1630	87	2705,-1520	88	2705,-1410
89	2705,-1300	90	2705,-1190	91	2705,-1080	92	2705,-970
93	2705,-860	94	2705,-750	95	2705,-640	96	2705,-530
97	2705,-420	98	2705,-310	99	2705,-200	100	2705,-90
101	2705,20	102	2705,130	103	2705,240	104	2705,350
105	2705,460	106	2705,570	107	2705,680	108	2705,790
109	2705,900	110	2705,1010	111	2705,1120	112	2705,1230
113	2705,1340	114	2705,1450	115	2705,1560	116	2705,1670
117	2705,1810	118	2705,1950	119	2705,2090	120	2705,2230
121	2520,2490	122	2380,2490	123	2240,2490	124	2100,2490
125	1960,2490	126	1850,2490	127	1740,2490	128	1630,2490
129	1520,2490	130	1405,2490	131	1295,2490	132	1185,2490
133	1075,2490	134	965,2490	135	825,2490	136	705,2490
137	575,2490	138	445,2490	139	325,2490	140	195,2490
141	65,2490	142	-45,2490	143	-155,2490	144	-265,2490
145	-375,2490	146	-485,2490	147	-595,2490	148	-705,2490
149	-815,2490	150	-925,2490	151	-1035,2490	152	-1145,2490
153	-1255,2490	154	-1365,2490	155	-1475,2490	156	-1585,2490
157	-1725,2490	158	-1865,2490	159	-2005,2490	160	-2145,2490

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ADIBOND Ver:

ling Diagram #

Revision Number

AD9887A AD9887A

Pin 1 15x Min. Passivation Opening Die Size

24355 Paddle Size

Pin to bond first | Scale | CODE IDENT NO. | Bond Pad Metal Composition 98.5%Al, 1%Si, 0.5%Cu Foundry Number

70 x 70μm 2.8 x 2.8 mils

Die ID Product

5640 x 5210μm 9000 x 9000μm 222.0 x 205.1 mils 354 x 354 mils

PKG000701

```
19970312 May 14 13:18 9887a.gin
                                                                                                                      46214560 May 14 13:21 9887a.gin
                                                                                                                                                                                           62825016 May 14 13:23 9887a.gin
                                                                                                                                                                                                                                                                   70236424 May 14 13:23 9887a.gin
                                                                                                                                                                                                                                                                                                                                              70568808 May 14 13:24 9887a.gin
                                                                                                                                                                                                                                                                                                                                                                                                                    74442752 May 14 13:24 9887a.gin
                         gremlin)/net/catwoman.adseng/disk1/ftp/inbox> ls -l 9*
                                                                                                                                                                                                        (gremlin)/net/catwoman.adseng/disk1/ftp/inbox> !!
  net/catwoman.adseng/disk1/ftp> cd inbox
                                                                     gremlin) /net/catwoman.adseng/diskl/ftp/inbox> !!
                                                                                                                                                                                                                                                                                        gremlin)/net/catwoman.adseng/disk1/ftp/inbox> !!
                                                                                                                                                                                                                                                                                                                                                                     (gremlin)/net/catwoman.adseng/diskl/ftp/inbox> !!
ls -1 9*
                                                                                                                                             gremlin)/net/catwoman.adseng/diskl/ftp/inbox> !!
                                                                                                                                                                                                                                                                                                                                                                                                                                           gremlin)/net/catwoman.adseng/diskl/ftp/inbox>
                                                   1 7204
                                                                                                                      -rw-r--r-- 1 7204
                                                                                                                                                                                              1 7204
                                                                                                                                                                                                                                                                   1 7204
                                                                                                                                                                                                                                                                                                                                              1 7204
                                                                                                                                                                                                                                                                                                                                                                                                                    1 7204
                                                   -- I.-- I.-
                                                                                                                                                                                                                                                                         - LM-I--I--
                                                                                                                                                                                                                                                                                                                                                 --X--X-MI-
                                                                                                                                                                                                 - LM-L--L-
                                                                                                                                                                                                                                                                                                                                                                                                                      --エ--エ-MJ-
gremlir.
                                                                                                                                                                                                                                                                                                                    ls -1 9*
                                                                                               ls -1 9*
                                                                                                                                                                       is -1 9*
```

```
150 Binary data connection for 9887a.gin (137.71.50.129,60716).
gremlin, projects/ad9887A/vanhoy/draclvs> ftp catwoman.adseng
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74442752 bytes sent in 4.6e+02 seconds (157.66 Kbytes/s)
                                                                                                                                                                                    230 Guest login ok, access restrictions apply.
                                                                                                                            331 Guest login ok, send ident as password
                                                           220 catwoman FTP server (Sunos 5.8) ready.
                                                                                           Name (catwoman.adseng:vanhoy): anonymous
                                Connected to catwoman.adseng.analog.com.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       local: 9887a.gin remote: 9887a.gin
                                                                                                                                                                                                                                                                                                                                           ftp> put 9887a.gin
200 PORT command successful.
                                                                                                                                                                                                                     ftp> cd inbox
250 CWD command successful.
                                                                                                                                                                                                                                                                                                                                                                                                                                       226 Transfer complete.
                                                                                                                                                                                                                                                                                ftp> binary
200 Type set to I.
                                                                                                                                                          Password:
```

2

Listing for John Vanhoy Tue May 14 12:18:21 2002

\*/N\* DAGULA (REV. 4.7.01-2000 / SIN-4 SSM. /GENDATE: 99-FEN/2000 )
\*\*(N\* DAGULA (REV. 4.7.01-2000 / SIN-4 SSM. /GENDATE: 99-FEN/2000 )
\*\*(N\* DAGULA (REV. 4.1.1 DATE =14-MAY-2002 HOSTNAME = XXX Tue May 14 12:18:21 2002

\*\*\*\*\*\* REDUCE (LAYOUT) SUMMARY REPORT \*\*\*\*\*\*

WEFFECT VALUES 0.0000000

..... LUSKET SUMMARY REPORT ......

INDISK PRIMARY CELL: 9887A

\*\*\*\*\* STATISTICS BEFORE REDUCE \*\*\*\*

o Si

0 X X X

133

9

OPTION

STATISTICS A

MOS BJT
58801 16°
FUPI F'
183
100
1009
1009
1009 SMASH PARALLEL DEVICES IS -- ON
CONSTRUCT MOS PARALLEL DEVICES IS -- ON
SMASH PSEUDO PARALLEL DEVICES IS -- ON
FORM CMOS GATES IS -- ON EXTRACT SUBSTRATE NODES OF GATES IS -- OFF SI

333 33

AFTER REDUCE .... DIODE 131 CELL 131

PMIE PMIE SUPI 58 NAND 11199

168 SDM 165 165 OAI 1925 SRAN

706 706 128

1NV 56627

green\_out\_b<0>
green\_out\_b<0>
green\_out\_b<0>

222 222 232 243 254 254 254

PGND GUNDO PVDD

green\_out\_b<0>

green\_out\_a<>> green\_out\_a<6>

green\_out\_a<4>
green\_out\_a<3>
green\_out\_a<2>
green\_out\_a<1>

\*\*\*\*\* STATISTICS BEFORE REDUCE \*\*\* \*\*\*\*\*\* REDUCE (SCHEMATIC) SUMMARY REPORT \*\*\*\*\*

MOS 269573

15 25

115

CAP 264

gg

XOE

CELL

g,

green\_out\_a<1> green\_out\_a<0> green\_out\_b<7> green\_out\_a<4> green\_out\_a<3> green\_out\_a<2>

AFTER REDUCE \*\*\*\* RES 807

58800 58800 5091 183 NOR 1929 \* STATISTICS MAS BUT 168 8800 168 9UP1 SUN 183 165 NOR 0AI 1929 1925 DRAW SRAW 0 0 0

706 706 128 UND

INV 56627 SUP 387 BOX 0

513 513

55WI 63 OR 2521 SMID

AOI 384 PHID

SUPI 58 NAND 11199 MOSCAP 186

blue\_out\_b<4>
blue\_out\_b<3>
blue\_out\_b<2>
blue\_out\_b<1>
blue\_out\_b<1>
blue\_out\_b<6>

bive\_out\_b<2>
bive\_out\_b<1>
bive\_out\_b<1>

green\_out\_b<1>
blue\_out\_b<5> blue\_out\_b<7>
blue\_out\_b<6>

blue\_out\_a<6>

blue\_out\_a<75

15708

green\_out\_b<7>
blue\_out\_b<7>

blue\_out\_b<5>
blue\_out\_b<5>
blue\_out\_b<5> blue\_out\_b<6>

12664 1718 694 625 469 161 161

UNSPECIFIED SCHEMATICAL PARAMETERS ARE CONSIDERED AS MISWATCH UNSPECIFIED LAYOUT PARAMETERS ARE CONSIDERED AS MISWATCH CORRESPONDENCE NODE PAIRS \*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*

SCHERATICS

BAD TYPE

RESISTOR LENGTH CHECK: RESUPRERESISTOR LENGTH CHECK: RESUPRERESISTOR LENGTH CHECK: DAPER

5.000 % 2.000 % 2.000 %

SUT EMITTER AREA CHECK: EMAPER= CAPACITOR VALUE CHECK: CVPER= WPERCENT (MOS) 2.000 TATALOGUE LVS REPORT ........

DATE: 14-MAY-2002 TIME: 11:12:44

PRINTLINE

X887apnivs.ivs

X887apnlvs.lvs

- cu_out_u-or	2 6	è	d_datack	_clamp	pad_Vsync	id_VSOUT		SS	6	S	735	SCAN	2	SCAN	pad_Rxcp	pad_Rxcn	pad_Rx2p	pad_8x2n	Ĉ			اچا	۾	e Reg	Refin	20	٥.		pad MDA	Keyno	pad Gmider	2 6	200	פ'יַ	000	iç	Ckin	d_CTI	Ĝ	0.	<u>.</u> ا	CXEXT	o i	2 00 17	į	٩	0	ŝ		5,47,2	017 00	reen_out_b	lue_out_a	lue out a<	lue_out_a<2	,	7000
,	<i>p</i> c	9 6	6	108	107	47	6	ţ,	106	8	105	4	104	103	8	79		101		99	98	97	96	۵	95	9	8	42		5 8		9 2	3 6	3 6	2 2	. 60	87	37	36	ω (	٠	78	3 6	6 0	0 0	2 00	2.17	82		27	28	29	00	7	σ.	ure	5
1000000	200000	٩	_catac	_clamp	pad_Vsync	LVSOU		Soc	10	١	d_SCL	SCAN	d_SCAN'r	SCAN	pad_Rxcp		Š	pad_Rx2n	pad_Rx1p		a	Š	Rtem	d Rmid	20	d RC	Ď.	- r	pad Magaic	ې د		5	36	1	P		CKin	5	5		- 1	CXEXT	Baid	C Date	įξ	Dad_KO	9	pac_XFILT_OUT	een_out_b<6	_aco_cae_	reen_out_bc4	en_out_be	lue_out_a<0	lue out a<1	lue_out_a<2	blue out a<3>	7.00
2	25	36	, 5	893	57	632	16330	632	908	9	23		16492	12	22	23	16	17	18	19	20	21	,	16487	649	617	619	2	24		15706	200	:	20	1	S		11	1.0	•		3 5	265	0 0	0 0	75	0	29	55	w	8	2735	411	88	911	25.50	270
١	•	•	-	) + p	н	1-1	<b>1</b> -4 1	-1	ı÷r	i-4 °	1-4	1-6	н	1-4	H	1-4	<b>&gt;-1</b>	н	1-4	1-1	P-1	14 1	⊷ŧ	1-1	- 6 1	1-2 1	-4 :	i-e 3	41	4 1-	4 5-			111		-	-	H	H			٠,	-( )	4 **	4 1-	4 1~			н	н	н	н				1-	4

NUMBER OF VALID CORRESPONDENCE NODE PAIRS = ; :: 910 LAY MODE AND 910 LAY MODE AND 910 LAY MODE PART 910 LAY MODE PART 910 LAY MODE PART 910 LAY MODE AND 910 LAY M WARNING .. UN-LABELED IN WARNING .. UN-LABELED IN WARNING .. UN-LABELED IN WARNING ... Ted\_out\_ak) BIG SCH NODE BIG SCH NODE WARNING \*\* UN-LABELED
WARNING \*\* UN-LABELED WARNING \*\* UN-LABELED UN-LABELED UN-LABELED red\_out\_a<3>
red\_out\_a<3>
red\_out\_a<3>
red\_out\_a<3
red\_out\_a<6
red\_out\_a<6
red\_out\_b<6
red G CAY YOUR GOOD YALL E GOOD YA 55 ŞŞ ST CC = SGON A 67 CONN 68 CONN 69 CONN 70 CONN 71 CONN 72 CONN 13 CONN = CONN = CONN = 110 COM
113 COM
247 COM
247 COM
295 COM
295 COM
2925 COM
2826 COM
28279 COM 48 COMM COM 

X887apnlvs.lvs

X887apnlvs.lvs

Exhibit 5 Serial No. 10/717,394 page 12 of 46

X=-84.05

Y=-148.10

CAP PS

(LEST UP TO 100 ) .......... UN-MATCHED LAYOUT DEVICES DEVICE MATCHING SUPPARY BY TYPE PS 170 518 0 122678 123205 168 TOTAL DEVICE 122679 UN-MATCHED DEVICE SCH. LAY. \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*

794806, 754458 7DEV198 CAP P

CAP PS

Y=-74.60

X=-62.55

Y=-74.60

794807, 754459 7DEV278 CAP 1

?DEV250 X=-62.60

CAP PS

Y=614.65 Y=614.65

294854, 294506 X=-84.10

794853, 794505 7DEV279 CAP I X=-105.60 CAP 25

Y=614.65

CAP PS

794855, 794507 7DEVZ81 CAP

CAP PS

794871, 794523 20EV301

794856, 794508

X=-41.10

Y=614.65

794792, 794444 705V195 CAP PS X=-105.55 Ys 794804, 794456 705V196 CAP PS X=-84.05 Ys

CAP PS CAP PS Y=-89.25

Y=-74.60

794805, 794457 70EV197 C15 m

CAP PS

SCAL

SUB-TYPE

NO DISCREPANCIES

NUMBER OF UN-KACCHED SCHEWATICS DEVICES = 109
NUMBER OF MATCHED SCHEWATICS DEVICES = 136392
NUMBER OF MATCHED LAYOUT DEVICES = 136392
NUMBER OF MATCHED LAYOUT DEVICES = 136392

LVS DEVICE MATCH SURPLARY

DISCREDANCY POINTS LISTING

794755, 754407 794710 CAP PS X=-41.05 X=-105.55 CAP PS X=-105.55 CAP ES 70EV86 X=-62.55 794756, 794408 705V126 CAP 1 7BV3C5 %=-41.05 ?94740, ?94392 294739, 294391 754738. 794390 CAP PS Y=-148.10 CY5 58 Y=-148.10

Exhibit 5 Serial No. 10/717,394 page 13 of 46

X=105.55 Y=104.00 794775.794431 7950148 CAP PS X=41.05 Y=104.00 794780, 794422

794768, 794420 792V145 Cap --

794767, 794419 75EV129 CAP 1

CAP PS

Y#-118.70

X=-105.55 CAP PS

v=-89.30

294791, 254443 2DEV167 CAP 1

X=-41.65

X887apnivs.ivs

X887apnivs.ivs

7DEV84 CAP PS X=-105.55 Y=-PDEV109742 NOS P 794737, 794389

Y=-148.10 Y=-475.68 1 = 5.00

8.83

Y=1441.65 Y=1441.60

CAP PS

CAP PS Y=1456.30 Y=1456.30 CAP PS CAP PS Y=1456.30 CAP PS CAP PS CAP PS Y=1426.90

Y=1456.30

3, 294675 4, 794676

8.83

2, ?94664

CAP PS - x=-105.60 Y=673.45 794997, 794559 7057361 Y-X=-105.60 Y=688.15 294920, 794572 X=-105.60 CAP PS 794845 Y=658.75 794895, 794547 DEV342 294970, 294622 794896, 794548 X=-41.10 95011, 794663 Y=1382.80 194971, 794623 EV456 94884, 794536 v=688.15 21, 794573 1.10 17, 794639 3 CAP PS 3.33 Y=1382.80 .10 Y=688.15 3, 794575 2, 794524 CAP PS CAP PS Y=658.75 CAP PS CAP PS Y=1382.80 CAP PS CAP PS Y=644.05 CAP PS Y=629.35 CAP PS CAP PS CAP PS CAP PS Y=688.15 CAP PS Y=1397.50 Y=1397.50 Y=1382.80 Y=673.50 Y=644.05 Y=1412.20

X887apnlvs.lvs

94789, 294441

Y=-85.30

X887apnivs.lvs

Exhibit 5 Serial No. 10/717,394 page 14 of 46

21, 794373

CAP PS

X=-384.95

CAP PS

184.95 CAP 2S

C2.5 58

Y=-104.60 Ya-118 70 Y=-118.70 Y=-133.40 Y=-133.40 Y=-148.10 Y=-148.16 Y=-148.10 Y=-162.80 Y=-162.80 Y=-162.20

3, 794405

294906, 794558 DEV386 CAP PS X=-385.00

Y=628.15 Y=673.45

CAP PS

8, 794570

CAP PS

Y=688.15

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X=-427.80 CAP PS X=-427.80 Y=644.05 794881, 794533 794905, 794557 DEV300 CAP PS X=-385.00 Y=629.35 794820, 794472 19 CAP 25 85.00 Y=644.05 82, 794534 177 CAP PS 185.00 Y=6 152, 794504 157 CAP PS 06.40 Y=599.95 36, 794488 98 CAP PS 27.80 Y=629.35 69, 794521 06.40 51, 794503 85.00 Y=599.95 37, 794489 75 CAP PS 27.80 Y=614.65 27.80 35, 794487 3, 794545 0, 794522 3 CAP PS 4.95 Y=-59.90 3, 294455 . 794474 . 794502 294442 CAP PS Y=658.75 CAP PS Y=614.65 CAP PS CAP PS CAP PS CAP PS Y=-89.30 ¥=614.65 Y=599.95 Y=-59.90 Y=-74.60 Y=-74.60 Y=658.75 Y=-74.60

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THE REST OF UN-MATCHED LAYOUT DEVICES ARE NOT LISTED

X=-382.73 CAP PS DEV511 CAP PS X=-425.53 Y=1426.90 795009, 794661 794998, 794650

Y=1412.20

294986, 294638

(=-382.73

CAP PS

Y=1397.50 Y=1397.50 Y=1382.80 Y=1382.80 Y=1382.80 Y=1368.10

75.53 CAP PS

Exhibit 5 Serial No. 10/717,394 page 15 of 46

X=-404.13 CAP PS

. 294619

CAP PS

794966, 794618

25.53 CAP PS 182.73 CAP I'S 182.73 Y=13

794952, 794604

CAP PS Y=1368.10

25.53 CAP PS

Y=1368.10 7=702.85 Y=702.85 Y=702.85

294936, 294588 X=-385.00

CAP PS CAP PS

Y=688.15

CAP PS

NUMBER OF UN-MATCHED SCHEMATICS DEVICES NUMBER OF UN-MATCHED LAYOUT DEVICES NUMBER OF MATCHED SCHEMATICS DEVICES NUMBER OF MATCHED LAYOUT DEVICES

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LVS DEVICE KATCH SUMMARY LVS SUMMARY (REPEATED) 

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CHECK ALL ABOUE DISCREPANCY
AND MARNING MESSAGES "/W" - SCHEMATIC AND LAYOUT MAY MOT MATCH
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AND MARWING MESSAGES DEVICE MATCHING SUMMARY BY TYPE SUS-TYPE TOTAL DEVICE SCH. LAY.

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	ALL	ERROR CELLS	LS LISTING	
PSFT35	MPSFT35	NWSFT35	PARSC62	GNDSC62
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De:61				MANPS61
MELDS61	SAELD61	NWINP61	LVTW61	LVTS61
VW-561	LVNPS61	HWELTAGT	LATSN61	EVTW61
19561	TOSMAN.	MVNWE61	NPER61	KVTER61
- 19%SOM	194504	PPNPSP61	NPPPSP61	NWPPO61
WPPS61	19dSAWdē	PPLVS61		MVTERA61
SDW-3561	ESDNS561	NPCUE561		NPINES61
S5ANP61	ESSVER61	ESDNW361		ESNPE361
1935501	19550555	ESSVER61	ESVERI61	ESVERZ61
WFPS61	POENDC61	POEND61	PONDE 61	2020E61
11MM161	DITOP161	P1CUW161	PRINW161	PROUNT 61
MCT61		CAPER61	BMARK61	PCAPER61
50%L61		BARCTEL	CONTRACT	CONE DE :
DMMP61		COPPEGI	COMVE61	COLVEGI
TOSALNO	COCASPOI	PCDI SP61		BIOCT61
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ADVI61		MIVIA61		MET2561
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ET3IO61	WMET3S61	P2RSW61	P2RSS61	P2ACS61
1P2S61	COP2E61	P2CPW61	P2CPS61	P2INP161
1924NIO	1957500	PZRIMW61	92R00761	MTIPAD61
V2H2E61	PV2M3E61	PADV2S61	PV1PV261	ROMPM61
OMPS61	NPROMP61	REMPPP61	FUSEW61	PSWGT61
DFUS61	BADFUS61	EUPOW61	FUPCA61	FUPORA61
OF OROL	CLEKET	NDSW61	ND5SP61	NDSNDS61
DSNWE61	PD5NWS61	FDSMDS61	PD5PD561	PGTER61
D5WVS61		T 9SGdN	NSDIW61	NSDIS61
SGA061		NPPXS61	PSDIW61	PSDIS61
PESS61	-	PPNDS61	PSGAC61	PPIPO61
DOD2561	OD2SP61	ODOD2561	NSD3VW61	MSD3VS61
30DS61	13	N312061	N3 PMS61	ERR261
SDSVW61	MSD5VS62	N5ODS61	02N5E61	NSIPO61
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Exhibit 5 Serial No. 10/717,394 page 17 of 46

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PROBLEM GEOMETRY ERROR LISTING

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Page 6

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198 198 198 198 208 223 170 170 181 181 183 163

LAYER: 93 79. 75. 74.5 81.0 81.0 93.0 95.250 95.250

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Exhibit 5 Serial No. 10/717,394 page 19 of 46

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109.500 94.700 89.500 84.500 84.500 84.500 89.500 77.100 89.000 82.000 82.000 89.000

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Tue May 14 12:22:03 2002

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DATE =14-MAY-2002

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PD5MVS61 NSGR061 NPESS61 PDRSS61 ODDD261 ODDD261 NSDSVM61 NSDSVM61 NSDSVM61 VTIIS61 VTIIS61 VTIIS61

GAPPE61 ERR161

PPESS61

NPIPO6 GAMPE 6

NPPXS61

PSDIW61 FCFOA61 ND5SP61 PD5FDS61

PSDIS6:

NSDSVS61 ERR361 PFLDW61 ER361

02N5E6 GAPNE61

N5IPO6

ERR26

MVTERA6 94SAVidd M/PPC61

DECETED DELETED DELETE

NSD3VW6

PPIPO61 PPANP61 NSD3VS61

F3ERR161 PFLDS61

ZAREA6

PZERRI61 BD2 PAD61 PADEM561

ER161 ER761

DSTUS61 COFUE61 NDSTUS61 PDSWWE61

BADEUS63

FUPC#6 RICKPPP6 PZRSW6

PADV2561

PV1M2E61 PV1PV261

FUSEW61 P2ROUM6 P2RSS61 KET3S61 METZW61 WXET1S61

FSWGT61

AVTSN61 PDW361 MYTER61

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TRANSPER

BECAUSE OF BECAUSE OF

TAXAAT

RUPOAA61 RD5NDS61 PD5SP61 PGTER61

P2CPW61 P2RINW61

MET2561 BADVI261 M3VIA261 P2ACS61 P2INP161 MT1PAD61 MT1PAD61 PADVIS61

M2VIA61 VIA2SP61 MET3IO61 P1P2S61 COINP261 KT2PAD61 PV2H2E61 ROMNPS61

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COMM26

COES3E61 E3VER361 PNFPS61 Plinul61

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NEWELN61

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ERROR CELLS LISTING

POMVE6

CONTW61

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BIOCT61 MET1S61 PCAPER61 N5VML61 CONFP61 MYTERA61 NPINES61 ESNPE361 E3VER261 ESPOW61 POPDE61 PROUW161

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Exhibit 5 Serial No. 10/717,394 page 21 of 46

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Exhibit 5 Serial No. 10/717,394 page 23 of 46

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Listing for John. Vanhoy

Listing for John. Vanhoy

Tue May 14 12:22:03 2002

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Tue May 14 12:22:03 2002

Page 8

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LAYER: 96 827 79 79 71 71 71 79 79 83 81 81

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\*DESCRIPTION

NUMBER OF ACUTE ANGLE INPUT POLYGONS =

128622823888 

11468

Exhibit 5 Serial No. 10/717,394 page 24 of 46

DRACULA ( REV. \*\*\* ( Copyright 1995, 4.7.03-2000 /

SUN-4 S5R4 , Cadence )

:

/GENDATE: 29-FEB/2000 )

........ LVS REPORT .........

DATE: 14-KAY-2002 TIME: 11:29:32

'N.

\*/N\* EXEC TIME =10:46:51 DATE =14-MAY-2002 HOSTNAME = firebird

INDISK PRIMARY CELL: 9887A

----- LVSNET SURMARY REPORT

WEFFECT VALUE: 0.0000000

\*\*\*\*\*\* REDUCE (LAYOUT) SUMMARY REPORT

.....

STATISTICS SEFORE REDUCE \*\*\*\* 961 DIODE 663

o UND

0 XOK

CELL

963

. SCHEMATICS

CORRESPONDENCE NODE PAIRS

LAYOUT

6 BdAL

Exhibit 5 Serial No. 10/717,394 page 25 of 46

UNSPECIFIED SCHEMPTICAL PARAMETERS ARE CONSIDERED AS KICHAPTH UNSPECIFIED LAYOUT PARAMETERS ARE CONSIDERED AS KICHAPTH

RESISTOR WIDTH CHECK: RESISTOR LENGTH CHECK: DIODE AREA CHECK: BUT EMITTER AREA CHECK: CAPACITOR VALUE CHECK: LPERCENT (MOS)

.000 % RESLPR= RESWPR-CVPER= EKAPER-

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CONSTRUCT MOS PARALLEL DRIVICES IS -- ON
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\*\*\*\*\*\* STATISTICS

REDUCE (SCHEMATIC) SUMMARY REPORT \*\*\*\*\*\* 7871STICS 5 108 7 165 7 165 1 165 1 165 1 1925 W SRAW

MOS 268800

115

REDUCE \*\*\*

1NV 56627 SUP 387 BOX 0

MOS 58626 FUFI 183 NOR 1929 DRAM 0

LSTICS
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SDM
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OAI
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SRAN

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96 96 PUP 131 CELL 0

SDWI 63 CR CR 2521 SNID

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SUPT 58 NAND 11199 MOSCAP 181

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BEFORE REDUCE \*\*\*\*

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SDWI 63 OR 2521 SMID

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SUPI 58 NAND 11199 XOSCAP

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OGND CVDD CVDD

56 627 SUP 387 BOX

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?DEV86 X=-62.55

CAP PS

SPASGE

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X=-84.05

?DEV87

CAP PS

X=-41.05 794740, 794392 794739, 794391

Y=-148.10 Y=-148.10 Y=-148.10

794741, 794393 7DEV107 CAP

CAP PS

794757, 794409 7DEV126 CAP

CAP PS Y=-118.70

OTTARGE

CAP PS

Y=-133.40

754756, 754408 0EV110

2DEV129

794768, 794420 X=-105.55 X=-41.05

Exhibit 5 Serial No. 10/717,394 page 27 of 46

794781, 794433 794781, 794433 7DEV164 CAP P X=-41.05 794769, 794421 7050145 CAP P X=-105.55 794780, 794432 7050148 CAP P

CAP PS

C\* 5 52 CAP PS CAP PS Y=-118.70

KOS KOS RES RES RES RES RES RES RES RES RES NUMBER OF UN-ANTCHED SCHEMATICS DEVICES = 3.9
NUMBER OF WATCHED LAYOUT DEVICES = 136213
NUMBER OF WATCHED LAYOUT DEVICES = 136213
NUMBER OF WATCHED LAYOUT DEVICES = 136213 TYPE \*\*\*\*\*\*\*\*\* (LIST UP TO 100) LVS DEVICE MATCH SUMMARY PS 170 518 0 DEVICE MATCHING SUMMARY BY TYPE \*\*\*\*\*\*\*\* DISCREPANCY POINTS LISTING \*\*\*\*\*\*\*\*\* SUB-TYPE PR NEED PRESERVE NO DESCREPANCIES 123029 TOTAL SCH. LAY. 123025 22676 UN-MATCHED DEVICE \*\*\*\*\*\*\*\*\* SCH \*\*\*\*\*\*\*\*\*

(DEST UP TO 100)

794808, 794460 794808, 794460 7DEV278 CAP P

CHP PS

794806, 794458 7DEV197 CAP PS X=-62.55 Y=-74.60 794805, 794457 7DEV196 CAP 794793, 794445 7DEV195 CAP 2DEV167

X=-84.05

CAP PS

Y=-74,60 Y=-74.60 Y=-89.25 Y=-89.30 Y=-104.00 Y=-104.00

X=-105.55 X=-41.05 294792, 294444

CAP PS

X=-105.60 CAP PS 794807, 794459 7DEV198 CAP

794854, 794506 7DEV279 CAP I

794855, 794507 7DEV280 CAP

X=-62.60 X=-84.10

2DEV281

7DEV301 CAP PS X=-105.60 Y=6 794872, 794524 SDEARGT.

Y=629.35 Y=614.65 Y=614.65 Y=614.65 Y=614.65 Y=-74.60

794857, 794509 794856, 794508

10 C) 2 5 5 5 CAP 2S CAP PS

7DEV109742 MOS P X=1209.28 Y=-475.68

794371, 777583, 777584 W = 23.55 L = X=-105.55 ?94738, ?94390

?DEV84

CKP PS Y=-148.10 L = 5.00

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CAP PS

7DEV390 75EV390 794873, 794525 ?95012, ?94664 795001, 794653 94923, 794575 Y=644.05 794885, 794537 105.60 Y 1.10 CAP PS 71, 794623 CAP 2S 0, ?94622 66 5 8, 794560 3, 794625 1, 794576 CAP PS Y=629.35 Y=1412.20 Y=1382.80 Y=1426.90 Y=1412.20 Y=1397.50 Y=1397.50 Y=1382.80 Y=1382.80 Y=1382.80 Y=688.15 Y=688.15 ¥=673.50 Y=658.75 Y=658.75 Y=644.05 Y=688.15 ¥=673.45

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94790, 794442

CY5 58

Y=-89.30

X887alvs.lvs

X=-38.83 194720, 194372 95038, 794690 95039, 294691 84.95 \ 37, ?94389 15, 794387 1, 794373 CAP PS Y==148.10 794677 CAP PS Y=-148.10 CAP PS CAP PS CAP PS CAP PS CAP PS CAP PS CY'S PS C+P 25 CAP PS CAP #S Y=1426.90 Y=-148.10 Y=-162.20 Y=-162.80 Y=-162.80 Y=1456.30 Y=1456.30 Y=1441.65 Y=1441.60 Y=1456.30 Y=1456.30

4, 794406

CAP PS

CAP PS

Y=-133.40 PS Y=-133.40

CAP PS

Y=-104.00

PDEV2

CAP PS CAP PS Y=-59.90

. 794473

Y=-59.90 12, 794474

CAP PS 93 CAP PS 96.35 Y=-74.60 )3, 794455

Y=-74.60

. 794443

Y=-89.30

CAP PS CAP PS

Y=-74.60

27.80 CAP PS

Y=688.15

17, 794559

CAP PS Y=673.45

. 294454

. 294456

7.80 CAP PS 73. 794475 CAP PS

Y=599.95

X=-425.53 Y=1368.10 794952, 794604

727 CAP PS 25.00 72702.85 29, 794591

77.80 CAP PS

¥#702.85 Y=688.15

0. 294572 9, 794571 8 CAP PS 7 CAP 2S 5.40 Y=688.15 8, 194570

7, 794589

CAP PS Y=702.85

. 294488

10

THE REST OF UN-MATCHED LAYOUT DEVICES ARE NOT LISTED

X=-382.73 CAP PS 7DEV511 CAP PS X=-425.53 Y=1: 795010, 794662 25.53 \ 98, 794650 7. 794639 . 294651 CAP PS CV5 58 Y=1426.90 Y=1412.20 Y=1412.20 Y=1397.50

7DEV451 CAP PS X=-404.13 Y=11 794958, 794620 CAP PS 6, 794638 , 79462 CAP ES Y=1397.50 Y=1382.80

71. 794523

2, ?94534

Y=644.05

CAP PS CAP PS

, 794535

Y=658.75 Y=644.05 8 CAP PS 7.80 Y=6 0. 794522 0. CAP PS 5.00 Y=6

Y=629.35

, 794505

6.40 Y=614.65

. 294504

CAP PS

Y=614.65

5.00

Y=599.95

CAP PS CAP PS CAP PS Y=599.95

Y=614.65

, 794489

X887alvs.lvs

X887alvs.lvs

94906, ?94558

Y=658.75 5, 794547 36 CAP PS 27.80 Y=6

CAP PS CAP PS

Y=673.45

Exhibit 5 Serial No. 10/717,394 page 29 of 46

12.73 Y

Y=1368.10

, 254615 CH PS 1382.89

Y=1382.80

3, 794605 3 CAP PS

CAP PS 1368.10

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₩ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	DEVICE LAY.

Listing for John. Vanhoy Tue May 14 12:23:31 2002

YARGOUS HOTCH SUBGRAY LVS SUMMARY (REPEATED)

> Page =

'/N' EXEC TIME =11:42:50 DATE =14-NAY-2002 HOSTNAME = firebird

SUN-4 S5R4

:

/GENDATE: 29-FEB/2000 )

•1/:

OF REGIONS MULTIPLE SOFT-CONNECTED

\*/W\* WARNING TO

ONE POLYGON REGION IN: NPINT

IN UPPER LAYERS

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\*/I\* PLEASE REFER TO .ERC FILE FOR DETAIL

"/W" WARNING TO

:: SOFT-CONNECTING MULTIPLE NODES ONE POLYGON REGION IN: PPINT

IN UPPER LAYERS

453

( Copyright 1995, Cadence ) \*\* 42:50 DATE =14-MAY-2002

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DRACULA ( REV. 4.7.03-2000 /

\*\*\*\*\*\*\*\*\* EVSNET SURMARY REPORT \*\*\*\*\*\*\*\*\*

INDISK PRIMARY CELL: 9887A

WEFFECT VALUE" 0.0000000

\*\*\*\*\*\* REDUCE (LAYOUT) SUMMARY REPORT .....

STATISTICS BEFORE REDUCE ....

348

90X 8

CELL

0

...... LVS REPORT ........

DATE : 14-MAY-2002 TIME : 12:21:21

\*/I\* PLEASE REFER TO . ERC FILE FOR DETAIL \*/I\* # OF RECIONS MULTIPLE SOFT-CONNECTED

OPTION TO OPTION TO SMASH PARALLEL DEVICES IS -- ON
CONSTRUCT MOS PARALLEL/SERIES STRUCTURES
SMASH PSEUDO PARALLEL DEVICES IS -- ON
FORM CMOS GATES IS -- ON S

EXTRACT SUBSTRATE NODES OF GATES IS --OFF

AFTER REDUCE \*\*\*

5DWI 63 08 2521 5%ID PACE NO. SUPI SB NAND 11194 MOSCAP 181

CAPACITOR VALUE CHECK: CYPER=
RESISTOR WIDTH CHECK: RESWPR=
RESISTOR LENGTH CHECK: RESLPR= DIODE AREA CHECK: DAPER=

LPERCENT(MOS) = 1.000 % BJT EMITTER AREA CHECK: EMAPER=

MRSPECIFIED SCHEMATICAL PARAMETERS ARE CONSIDERD AS MISNATCH UNSPECIFIED LAYOUT PARAMETERS ARE CONSIDERD AS MISNATCH \*\*\*\*\*\*\*\*\*

CORRESPONDENCE NODE PAIRS

LAYOUT

SCHEMATICS

\*\*\*\*\*\* STATISTICS BEFORE REDUCE \*\*\*

REDUCE (SCHEMATIC) SUMMARY REPORT \*\*\*\*\*\*

1929 DRAI 0

0AI 1925 SRAI

STATISTICS MOS BJT 1627 168 UPI SDH 183 170

706 706 128 128 1348

1NV 56627 SUP 387 BOX 0

268800

191

865 807

DIODE

264 264

O GND

o SOX

1730

G E

MOS 58626 PUPI 183 NOR 1929

168 SDW 165 OAI 1925 SRAD

128 706 UNIT PD6

56627 SUP 387 BOX

DIODE 96 131 CELL

S13 23

2521 SMID SMID SMID

AOI AOI PAID

11199

MOSCAP 181

green\_out\_b<0>
green\_out\_a<6> PGND GNDP GNDP ALGND ALGND ALVDD AVDD DGND OGND green\_out\_a<4> green\_out\_a<5> OUDD green\_out\_a<4> green\_out\_a<5> green\_out\_acc> green\_out\_b<0: 

Listing for John. Vanhoy

Tue May 14 12:34:29 2002

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Exhibit 5 Serial No. 10/717,394 page 31 of 46

pad_DVISCL pad_DVISCL pad_DVISCL pad_DVISCL pad_DVISCL pad_SVISCL pad_VISCL	e_out_ace_out_	reen_out_ac reen_out_ac reen_out_sc reen_out_sc reen_out_sc reen_out_sc lue_out_bc lue_out_sc lue_out_sc lue_out_ac lue_o
500 000 000 000 000 000 000 000 000 000	5 blue control  6 blue control  6 control  7 control  8 control  9 control  10	y green out of the control of the co
26 1 1506666 1 150666 1 150666 1 150666 1 150666 1 150666 1 150666 1 150666	1080010 98800000000000000000000000000000	16016 15920 15709 15709 15195 913 913 913 913 913 913 913 913 913 913

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::: BIG SCH NODE
BIG SCH NODE red\_out\_acts red\_out\_acts red\_out\_acts red\_out\_bcts red\_out\_bcts red\_out\_bcts red\_out\_bcts red\_out\_bcts red\_out\_bcts red\_out\_bcts red\_out\_bcts pad\_Rx2p pad\_Rxcn pad\_Rxcp pad\_SCANc1k pad\_SCANc1t pad\_SCANcut pad\_SCA pad\_SCA pad\_SCA pad\_SCANcut pad\_SCANcut pad\_SCANcut WARNING \*\* UN-LABELED
WARNING \*\* UN-LABELED pad\_hsout red\_out\_a<0> red\_out\_a<1> pad\_SyncDT pad\_VSOUT red\_out\_a<2> pad\_datackb \*\* UN-LABELED UN-LABELED BIG ### 100 PM 100 P 14 COMN = 28 COMN = ODE = 4 CONN = 110 COWN 137 COWN 277 COWN 272 COWN 296 COWN 295 COWN 28259 COWN 28261 COWN 28262 COWN 28265 COWN 28265 COWN 16332 

> Exhibit 5 Serial No. 10/717,394 page 32 of 46

OCCURRENCE NAME X1144-X11-X18-16\_CO DEV339528 INV X1144-X11-X18-X134-INCPB X1144-X11-X18-16\_CO DEV321125 INV X=1048.70 Y=-106 X1144-X11-X18-16\_CO, DEV362706 X1144-X11-X18-X134-INCPB, X1144-X11-X18-16\_CO X=1075.20 DEV339363

WI

Xi144-Xi1-Xi8-Xi6-U21\_OUT Xi144-Xi1-Xi8-Xi6-U21\_OUT

X=1047.30

Y=-1068.10

ZNZ.

Y=-1063.40

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G -- UN-LABELED I Y NODE : ALVDD G \*\* UN-LABELED RG \*\* UN-LABELED Y NODE : ALGND G \*\* UN-LABELED G \*\* UN-LABELED

777 CONN = 1614 CONN = 1614 CONN = 1637 CONN = 4641 CONN = 7587 CONN = 7767 CO

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OF VALID CORRESPONDENCE NODE PAIRS =

NUMBER

ER OF MAYANTHED SCHEMATICS DEVICES = 5.5 ER OF MAYCHED SCHEMATICS DEVICES = 136208 ER OF MAYCHED LAYOUT DEVICES = 136208 ER OF MAYCHED LAYOUT DEVICES = 136208

\*\*\*\*\* UN-MATCHED \*\*\*\*\*

Xi144-Xi1-X:8-Xi7-U21\_OUT Xi144-Xi1-X:8-i6\_CO, Xi144-Xi1-X:8-Xi7-U27\_IN2 7DEV318894 FUR X1144-X11-X18-X16-U21\_OUT 7DEV294765 SDW

\*

X=1047.40 Y=-1073.70 754765, X1144-X11-X18-16\_CO X1144-X11-X18-X17-U27\_IN2

NODE X1144-X11-X18-13\_CO DISCREPANCY

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OCCURRENCE NAME X1144-X11-X18-X14-U21\_OCT 7DEV296584 NAME UN-MATCHED DEVICES----

ON-MENCHED ----

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X1144-X11-X8-X14-U21\_OUT, X1144-X11-X18-11\_CO, X1144-X11-X18-X14-U27\_IN2 OCCURRENCE NAME X1144-X11-X18-X13-U28\_OUT

DEV308794 NOR

OCCURRENCE NAME X1144-X11-X18-X13-U28\_OUT X1144-X11-X18-X13-U28\_IX2 X1144-X11-X18-13\_C0

x1144-x11-x18-x13-u28\_cum, x1144-x11-x18-13\_co, x1144-x11-x16-x15-u28\_in2

X=1105.90 DEV333002 NOS

Y=-1036.20

DEV308801 NOR X1146-X11-X18-X14-U28\_IN2

DEV333005 KCR X=1101.80

OCCURRENCE NAME X1144-X11-X18-13\_CO X1144-X11-X18-X14-U28\_IN2 X1144-X11-X18-X14-U27\_IN2 X:144-X:1-X:8-:3\_CO

7. PEDV296576 MAND ::

\*\*X1144-\*X1-X18-X18-X17-U21\_OUT,

\*\*X144-\*X1-X18-X16\_CO\_

\*\*X144-\*X1-X18-X16\_CO\_

\*\*X144-\*X1-X18-X17-U21\_IN2

\*\*CUTREDUC MAND \*\*X144-X11-X18-X17-U28\_IN2

OCCURRENCE NAME X1144-X11-X18-X17-U21\_OUT

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--- NITH UN-MATCHED DEVICES--

NODE X1144-X11-X18-16\_CO

DISCREPANCY

X1144-X11-X18-X16-U28\_UUT X1144-X11-X18-X16-U28\_IN2 X1144-X11-X18-16\_CO OCCURRENCE NAME X1144-X11-

X1144-X11-X18-X134-INCPE

DEV332999 NOR Y\*-1061.20 X:1056.90 Y\*-1061.20 X:1144-X:1-X:8-X:6-UZ8\_OUT, X:144-X:1-X:8-X:6-UZ8\_INZ

X887alvss.lvs

OCCURRENCE NAME

X1144-X11-X18-X16-U28\_OUT

DEV308793

- NOF

Xi144-xi1-xi8-xi7-U28\_IN2 Xi144-xi1-xi8-xi7-U27\_IN2 Xi144-xi1-xi8-i6\_C0

DEV332996 NOR Y=-1068.10 X=1051.40 Y=-1068.10 X1144-X11-X18-X17-U28\_IN2 X1144-X11-X18-X17-U27\_IN2 X1144-X11-X18-16\_CO

DEV-308789 NOF

X1144-X11-X18-13\_CO, X1144-X11-X18-X13-U21\_OUT X=1101.80 Y=-1043.10 X1144-X11-X18-X14-U28\_IN3 X1144-X11-X18-X14-U37\_IN2 X1144-X11-X18-X13\_CO DEV362709 INV X=1097.70

DEV339529 INV

X1144-X11-X18-X14-U27\_IN2 7DEV318914 PUP X1144-X11-X18-X14-U21\_OUT X1144-X11-X18-13\_CO.

UN-MATCHED ....

X887alvss.lvs

Exhibit 5 Serial No. 10/717,394 page 33 of 46

xi144-xi1-xi : 22. 22. 21-xi8-xi7-u21_0	DEVZ59520 NOS P X1144-X11-X1 : 8-X17-mX39	DISCREPANCY NODE X1144-X11-X18-X17-U27_IN2WITH UN-MATCHED DEVICES	UN-MATCHED	DEV139531 INV X1144-X11-X18-X4-J4_CO, X1144-X11-X18-X4-X4-X4-X4-X4-X4-X4-X4-X4-X4-X4-X4-X4-	DEWJ08800 NOR :  X114-X11-X18-X14-U78_OUT, X114-X11-X18-X14-U88_INZ. X114-X11-X18-X14_CO QCCUBRENCE NAME X114-X11-X18-14_CO	: ::8-xi4-U28_0	WITH UN-MATCHED DEVICES CCURRENCE NAME X1144-X11 DEVIZ65620 NAME X1144-X11-X18-X15-U21_OUT X1144-X11-X18-X14_CO. X1144-X11-X18-X18-X14-X11 CCURRENCE NAME X1144-X11	NODE X1144-X11-X:8-44 CD
DEP213928 MOS N Y=-068 75 %=1074.25	DEV65593 MOS P X=1074.00 Y=-1073.75 X144-X11-X18-X17-ZPCP, X144-X11-X18-X17-ZP7, IRV, X1144-X11-X18-X17-ZP7, IRV,		X144-Xi1-X8-X5-DZ_OUT, X144-Xi1-X8-X5-DZ_IM2 X144-Xi1-X8-X5-DZ_IM2 XDEVI3831 FUT X=1054, 40 Y=-104-70 X5958, X144-X1-X8-45-DZ_IM2 X144-X1-X8-X5-DZ_IM2	DECTACION INV X=106.10	DEVI33006 NOR Y=-1043.10 **1104-181 *X38-X4-UT8_OUT, X1144-X11-X18-X14-UT8_CUT, X1144-X11-X18-X14-UT8_INZ	DEV333003 NOR Y=-1043.10 X=105.40 X1144-X11-X38-X15-UZ8.INZ, X1144-X11-X18-X15-UZ7_INZ, X1144-X11-X18-X15-UZ7_INZ, X1144-X11-X18-14_CO	OBHOLYOP-NI	3

X88/alvss.lvs

X887alvss.lvs

Listing for John. Vanhoy --- NODE X1144-X11-X18-X15-U27\_IN2
---WITH UN-MATCHED DEVICES-----OCCURRENCE NAME Xi144-Xi1-Xi8-Xi7-U21\_OUT ?DEV296576 NAND TOTAL DISCREPANCY OCCURRENCE NAME OCCURRENCE NAME OCCURRENCE NAME X1144-X11-X18-X17-U27\_IN2 X1144-X11-X18-17\_CO, X1144-X11-X18-X17-U21\_OUT \*\*\*\*\* UN-MATCHED \*\*\*\*\* OCCURRENCE NAME X1144-X11-X18-X17-U21\_OUT. X1144-X11-X18-16\_CO, X1144-X11-X18-X17-U27\_IN2 ---WITH UN-MATCHED DEVICES---Xi144-Xi1-Xi8-i7\_QN, Xi144-Xi1-Xi8-Xi7-U27\_IN2 \*\*\*\*\* UN-MATCHED \*\*\*\*\* DEV331132 INV X1144-X11-X18-X17-U28\_IN2, X1144-X11-X18-X17-U27\_IN2, X1144-X11-X18-16\_C0 DEV308789 NOR X1144-X11-X18-X17-U27\_IN2, X1144-X11-X18-X17-U30\_IN X1144-X11-X18-X17-U21\_OUT X1144-X11-X18-X6\_CO, X1144-X11-X18-X17-U27\_EN2 DEV339527 INV DEV296577 INV NODE X1144-X11-X18-X17-U21\_OUT \*\*\*\* UN-MATCHED \*\*\*\*\* X1144-X11-X18-X17-U28\_IN2 X1144-X11-X18-17\_CO X1144-X11-X18-17\_QN Tue May 14 12:34:29 2002 7DEV294765 SDW X=1047.30 X=1085.15 Y==1068.10 Xi144-Xi1-Xi8-17\_QN, Xi144-Xi1-Xi8-Xi7-U27\_IN2 PDEV294765 SDN PDEV318894 PUP DEV362705 INV X=1045.90 Y=-1068.10 X1144-X11-X18-17\_CO, X1144-X11-X18-X17-U21\_CUT X=1047.40 Y=-1073.70 754765, X1144-X11-X18-16\_CO X1144-X11-X18-X17-U27\_IN2 X=1051.40 Y=-1068.10 X1144-X11-X18-X17-U28\_IN2 X1144-X11-X18-X17-U27\_IN2 X1144-X11-X18-16\_C0 DEU320284 INV X=1080.10 Y=-1067.75 X1144-X11-X18-X17-U27\_IN2 X1144-X11-X18-X17-U30\_IN DEV354683 INV DEV332996 NOR .... ON-SATCHED .....

X1144-X11-X18-X15-INCP, X1144-X11-X18-X15-U27\_IN2, X1144-X11-X18-X15-U12\_IN2

Xi144-Xi1-Xi8-Xi5-INCP, Xi144-Xi1-Xi8-Xi5-U27\_IN2 Xi144-Xi1-Xi8-Xi5-U12\_IN2

DEV259652 MOS P 8-X15-m439

X1144-X11-X1 :

DEV67648

SON Y=-1048.75

X=1081.00

DEV259630 MOS N ----

X1144-X11-X1 :

X1144-X11-X18-X15-INCPB, X1144-X11-X18-X15-U27\_IN2 X1144-X11-X18-X15-U12\_IN2 DEV215930 NOS N X=1081.25 Y=

Y=-1043.75

\*\*\*\* UN-MATCHED \*\*\*\*\*

DEV259674 MOS N X1144-X11-X1	DEVZ55696 MOS P Xi144-Xi1-Xi -Xi4-mXi9 Xi144-Xi1-Xi8-Xi4-UNCP, Xi144-Xi1-Xi8-Xi4-UNCP, Xi144-Xi1-Xi8-Xi4-UNC,	NODE X1144-X11-X18-X14-U27_IN2WITH UN-MATCHED DEVICES	******* DISCREPANCY	X1144-X11-X18-X15-VZ1_OUT	Listing for John, Vanhoy Tu
: DEV215935 ROUN N	DEV67649 MOS P : X=1124.40 Y=-1048.75 X1144-X11-X19-X34-170CP, X1144-X11-X19-X34-470Z_INC, X1144-X11-X18-X14-471Z_INC		Y 8 8	X1144-X11-X18-X15-U31_OUF - 7EPV994766 550W X21054.30 V9-1043.10 X1144-X11-X18-X15-U71_OUF, X1144-X11-X18-X15-U71_N2 X1144-X11-X18-X15-U71_N2	Tue May 14 12:34:29 2002 Page 10

DEV308801 NOR	DEV296585 INV	BEC2506 MOS N	X1144-X11-X18-X14-INCP, X1144-X11-X18-X14-U27_IN2, X1144-X11-X18-X14-U12_IN2
: DEV333005 NOR : X=1101.80 Y=-1043.10 X4144-X41-X48-X44-1798 YND	: DE0320287 INV : X=1110.50	BMANTSTS WH: N - 104:75	X1144-X11-X18-X14-INCP, X1144-X11-X15-X14-U27_INC, X1144-X11-X18-X14-U17_INC

X1144-X11-X18-X15-U28\_IN2, X1144-X11-X18-X15-U27\_IN2, X1144-X11-X18-14\_C0 OCCURRENCE NAME X1144-X11-

X1144-X11-X18-15\_QN

X=1058.40 X1144-X11-X18-X15-U28\_IN2 X1144-X11-X18-X15-U27\_IN2 X1144-X11-X18-X15-U27\_IN2

DEV333003 NOR

DEV308798 NOF

X1144-X11-X18-15\_QN, X1144-X11-X18-X15-U27\_IN2 \*\*\*\*\* UN-MATCHED \*\*\*\*\*

x=1092.15 Y=-1043.10 X1144-X11-X18-15\_QN, X1144-X11-X18-X15-U27\_IN2

Y=-1043, 10

DEV354687 INV X=1092.15

UN-MATCHED \*\*\*\*\*

7DEV318913 PUP ?DEV294766 SDW X=1054.30

X=1054.40 Y=-1048.70 755948, X1144-X11-X18-14\_CO X1144-X11-X18-X15-U27\_IN2 X1144-X11-X18-X15-U27\_IN2 X1144-X11-X18-X15-U21\_OUT X1144-X11-X18-14\_CO,

OCCUR

DEV3 X114

X1144-X11-X18-14\_QN, X1144-X11-X18-X14-U27\_IN2

DEV331138 INV

X1144-X11-X18-X15-U27\_LN2, X1144-X11-X16-X15-U30\_IN OCCURRENCE NAME X1144-X11-X18-X15-U28\_IN2

X=1087.10 Y=-1042.75 Xi144-Xi1-Xi8-Xi5-U27\_IN2 Xi144-Xi1-Xi8-Xi5-U30\_IN

DEV320286

IN.

DEV296583 INV

X1144-X11-X18-X15-U21\_OUT, X1144-X11-X18-14 CO, X1144-X11-X18-X15-U27\_IN2 OCCURRENCE NAME X1144-X11-X18-X15-U27\_IN2 X1144-X11-X18-XX5-INCPB, X114-X11-X18-XX5-U27\_IN2, X114-X11-X18-XX5-U27\_IN2, OCCURRENCE NAME X1144-X11-X18-X15-U21\_OUT

DEV296582 NAND

ANI	DEV354689 INV	: VKI	31140 INV
		MATERIAL STRUCTURE STRUCTU	V Privite
-WIE-277-CO	X1144-X11.		1
-X18-X14-U2	X1144-X11-X18-X14-U2	4-X11-X18-X14-U27_IN2.	-X11
-X18-X14-U2	X1144-X11-		4-X11-
Y=-104	X=1101.80	.,	
NOR	DEV333005		08801 NOR
	2	NAME X1144-X11-X18-X14-U28_IN	RENCE
-X18-X14-U3	X1144-X11-	4-X11-X18-X14-U30_IN	4-X11-
X:144-X:1-X:8-X:4-U2	X:144-X11.	-X18-X14-U27_IN2.	4-X11.
Y=-104	X#1136.50		

	X18-14_QN				.,		
NAL BESPERAGE		X1144-X11-X18-13_CC	Xil44-Xil-Xi8-Xi4-U27_IN2.	X1144-X11-X18-X14-U28_EN2,	X=1101.80 Y=-1043.10	DEV333005 NOR	

DEV354689 INV x=1135.55	Xi144-Xi1-Xi8-Xi4-U27_INZ, Xi144-Xi1-Xi8-i3_CO

				μ,				
				1097.7				
	80 Y=-1048.70			2				
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	O		
	0		
44-X11-X18-X14-U27_IN2	•		

UN-MATCHED ....

TDEV296582 NAND X:144-X:1-X:8-X:5-U21\_OUT, X:144-X:1-X:8-X:5-U27\_IN2 X:144-X:1-X:8-X:5-U27\_IN2

OCCURRENCE NAME X1144-X11-X18-X15-U21\_OUT ---WITH UN-MATCHED DEVICES-\*

.... UN-MATCHED ....

NODE X1144-X11-X18-X15-U21\_OUT

DISCREPANCY

\*

OCCURRENCE NAME X1144-X11-X18-15\_CO

X1144-X11-X18-15\_CO DEV339530 INV

DEV362707 INV X=1052.90 Y=-1043.10 Xi144-Xi1-Xi8-i5\_CO,

\*\*\*\*\*\*\* DISCREPANCY

X887alvss.lvs

X887alvss.ivs

Exhibit 5 Serial No. 10/717,394 page 35 of 46

CCCURRENCE NAME X1:44-X11-X18-14\_CO OCCURRENCE NAME OEV296584 NAME ---WITH UN-MATCHED DEVICES---X1144-X11-X18-14\_CO, X1144-X11-X18-X14-U21\_OUT X1144-X11-X18-13\_CO. X1144-X11-X18-X14-U27\_INZ X1244-X11-X18-X14-U21\_OUT NODE X1144-X11-X18-X14-U21\_CUT UN-MATCHED \*\*\*\* X1144-X11-X18-X14-U21\_OUT Tue May 14 12:34:29 2002 X1144-X11-X18-14\_CO, X1144-X11-X18-X14-U21\_OUT 7DEV294767 SDW X1144-X11-X18-X14-U21\_GUT X1144-X11-X18-13\_CO. X=1097.70 DEV362708 INV X=1096.30 X1144-X11-X18-X14-U27\_IN2 UN-HATCHED ----Y=-1043.10 Y=-1043.10

X1144-X11-X10-X11-X127-X10-X17-016\_00T

---WITH UN-WATCHED DEVICES-----

NODE X1144-X11-X10-X11-X127-X10-10\_ZN

DISCREPANCY

OCCURRENCE NAME DEV302594 TNV

x:144-xi1-xi0-xi1-xi27-xi0-xi402-U21\_ CUT, x:144-xi1-xi0-xi1-xi27-xi0-i0\_ZN , xi144-xi1-xi0-xi1-xi27-xi0-xi402-U2 DEV296636 MAND UN-MATCHED .....

OCCURRENCE MANE X:144-X:1-X:0-X:1-X:27-X:0-X:402-U28\_IN2

DEV332993 NOR

DEV308818 NOR

OCCURRENCE NAKE Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-i0\_ZN IN2, X1144-X11-X10-X11-X127-X10-X1402 -U27\_IN2, X1144-X11-X10-X11-X127-X10-10\_ZN X1144-X11-X10-X11-X127-X10-X1402-U28 Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-i0\_2N

DEV340470 NOR

70EV294754 SDW X=1771.90 X1144-X11-X10-X11-X127-mm0\_D Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-i0\_2N Xi144-Xi1-Xi0-Xi1-Xi27-mm1\_D, X=1766.30 Y=-1434.80 Y=-1434.80

X1144-X11-X10-X11-X127-X10-X1402-U21 OUT, X1144-X11-X10-X11-X127-X10-10\_EN LINZ X1144-X11-X10-X11-X127-X10-X1402-U2 PUP

X1144-X11-X10-X11-X127-X10-10\_ZN, X1144-X11-X10-X11-X127-mrl\_D, X1144-X11-X10-X11-X127-mrl\_D, X1144-X11-X10-X11-X127-mrl\_D UN-MATCHED \*\*\*\* DEV321328 NOR

X=1772.00 Y=-1440.40

Listing for John, Vanhoy

Tue May 14 12:34:29 2002

DISCREPANCY X1244-X11-X10-X11-X127-X10-10\_2N. X1244-X11-X10-X11-X127-X10-X1460-U27.

--- NODE Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-i4\_CO
---WITH UN-MATCHED DEVICES-----

OCCURRENCE NAME X1144-X11-X10-X11-X127-X10-X15-U21\_OU
T, X1144-X11-X10-X11-X127-X10-14\_CO,
X1144-X11-X10-X11-X127-X10-X15-U27\_IN ?DEV296640 NAND X1144-X11-X10-X11-X127-X10-X15-U21\_OUT

OCCURRENCE NAME X1144-X11-X10-X11-X127-X10-X14-U28\_COT

DEV308820 NOR DEV332990 NCR

YN -1452-56

OCCURRENCE NAME 2, X1144-X11-X10-X11-X127-X10 X14 USB EN DEV308824 NOR X1144-X11-X10-X11-X127-X10-14\_CO T, X1144-X11-X10-X11-X127-X10-X14-028 X1144-X11-X10-X11-X127-X10-X14-U28\_GU 122 X1144-X11-X10-X11-X127-X10-X15-U28\_IN2 %1144-x11.x10-x11-x127 x16 x14 000 x T, x1144-x11-x10-x11-x127-x10-x4\_co, x1144-x11-x10-x11-x127-x10-x14-026\_10 DEV332987 NOR X+1773.10 X1144-X11-X10-X11-X127-X16-X15-UN

xi146-Xi1-Xi0-Xi1-Xi27-Xi0-i4\_CO

Exhibit 5 Serial No. 10/717,394 page 36 of 46

X1144-X11-X10-X11-X127-X10-14\_CO, X1144-X11-X10-X11-X127-X10-X14-U21\_OU T DEV339582 KI

\*\*\*\* UN-MATCHED \*\*\*\* DEV362703 INV

7DEV294753 SDM 

X=1797.20 736196. PDEV318343 PUP xi144-xi1-xi0-xi1-xi27-xi6-i4\_c0, xi144-xi1-xi0-xi1-xi27-xi0-xi5-U27, 2 Y=-1465.40

UN-MATCHED \*\*\*\*

DISCREPANCY

12

---WITH UN-MATCHED DEVICES-----NODE X1144-X11-X10-X11-X127-X10-X1402-U27\_IN2

0-xi1-xi27-xi0-xi402-mx39 X1144-X11-X1 X=1798.60 DEV33971 SON

Y=-1440.45

X887alvss.lvs

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi402-INCP Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi402-UZ 7\_INZ. Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi4

x1144-X11-X10-X11-X27-X10-X1402-INCP X1144-X11-X10-X11-X127-X10-X1402-U2 7\_IN2, X1144-X11-X10-X11-X127-X10-X14 02-U12\_IN2

74

Listing for John. Vanhoy Tue May 14 12:34:29 2002

OUT, Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-IC\_ZN , Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi402-U2

OCCURRENCE NAME X1144-X11-X10-X11-X127-X10-1402\_CO. X1144-X11-X10-X11-X127-X10-X1402-U21\_ DEV339581 X1144-X11-X10-X11-X127-X10-1402\_CC DEV362704 INV

.... UN-MATCHED .....

OUT PDEV294754 SDM

X=1771.90

CT

DISCREPANCY ZX.

00T, N1144-N11-N10-N11-N107-N10-N10-10, N X1146-N11-N10-N11-N107-N10-N1400-U X1164-X11-X10-X11-X127-X10-X1403-031, X1164-X11-X10-X11-X127-X10-X1403-031,

NODE X:144-X:1-X:0-X:1-X:27-X:0-X:5-027\_IN2 

DEV31651 X=1823.80

XOS ₽ Y=-1465.45

OCCURRENCE NAME

X1144-X11-X10-X11-X127-X10-X1402-U28\_IN2

X1144-X11-X10-X11-X127-X10-X1402-U27

Y=-1434.45

HALLS ---

UN-MATCHED DEVICES---

X=1804.70

IN2, X1144-X11-X10-X11-X127-X10-X1402

IN2. X1144-X11-X10-X11-X127-X10-X1402 X1144-X11-X10-X11-X127-X10-X1402-U27

DEV308818 NOR

OCCURRENCE NAME

X1144-X11-X10-X11-X127-X10-1402\_QN

DEV331153 INV

X1144-X11-X10-X11-X127-X10-X1402-U28 IN2. X1144-X11-X10-X11-X127-X10-X1402 -U27\_IN2. X1144-X11-X10-X11-X127-X10-10\_2N

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi402-U28\_ IN2, Xi144-Xi1-Xi6-Xi1-Xi27-Xi0-Xi402

\_IN2

DEV265451 NOS P --- X1144-X11-X1

--X11427-X10-X15-EN39

X1144-X11-X10-X11-X127-X10-X15-INCP

X1144-X11-X10-X11-X127-X10-X15-U127\_IN

2. X1144-X11-X10-X11-X127-X10-X15-U12

Y=-1434.80

X=1776.00 DEV332993 NOR

X1144-X11-X10-X11-X127-X10-10\_ZN

-027

7\_INZ

X1144-X11-X10-X11-X127-X10-X1402\_QN, X1144-X11-X10-X11-X127-X10-X1402-U27\_

.... UN-MATCHED .....

?DEV294754 SDW

X\*1771.90

X=1809.75 Y=-1434.80 X:144-X:1-X:0-X:1-X:27-X:0-:402\_QN. X:144-X:1-X:0-X:1-X:27-X:0-X:402-U27\_

OCCURRENCE NAME

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-U21\_OUT

\*\*\*\* UN-KATCHED ....

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-INCFB. Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-U27\_IN DEV265429 MOS N ----0-X11-X127-X10-X15-mM40

X1144-X11-X1

DEV179176 NGS N X=1824.05 Y=-1460.45

X1144-X11-X10-X11-X127-X10-X15-U12

PDEV296640 NAND

DEV354681 INV X=1809.75

X1144-X11-X10-X11-X127-X10-X1402-U21\_ OUT, X1144-X11-X10-X11-X127-X10-10\_ZN

OCCURRENCE NAME

X1144-X11-X10-X11-X127-X10-X15-U27\_INC

N

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-U21\_OU
T, Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-i4\_CO,
Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-U27\_IN

Y=-1434.80

, X1144-X11-X10-X11-X127-X10-X1402-U2

UK-MATCHED

7DEV318374 FUE

X=1772.00

Y=-1440.40

737481,

OCCURRENCE NAME X1144-X11-X10-X11-X127-X10-X1402-U27\_EN

DEV296637

K

xi144-xi1-xi0-xi1-xi27-xi0-xi402-U21\_
0UT, xi144-xi1-xi0-xi1-xi27-xi0-i0\_zN
 xi144-xi1-xi0-xi27-xi0-xi402-U2

OCCURRENCE NAME

X1144-X11-X10-X11-X127-X10-X1402-U21\_OUT

.... UN-MATCHED .....

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi402-INCP

DEV161494 MOS N xel798.95 "=-1435.45 X1149-X11-X10-X11-X127-X10-X1402-INCP X1140-X11-X10-X11-X127-X10-X102-U 27\_IN2, X1144-X11-X10-X11-X127-X10-X1 402-U12\_IN2

0-X±1-X±27-X±6-X±402-mM40 IN2. X1144-X11-X:0-X11-X127-X10-X1 X1144-X11-X10-X11-X127-X10-X1402-U

DEV265341 KOS N

X1144-X11-X1

DEV296636 NAVID 402-U12\_IN2

X1144-X11-X10-X11-X127-X10-X15-INCFB X1144-X11-X10-X11-X127-X10-X15-U07\_07 Z; X1144-X11-X10-X11-X127-X10-X15-U01 X:144-X:1-X:0-X:1-X:0-X:0-X:5-X:X0F, X:144-X:1-X:0-X:1-X:27-X:0-X:5-U27-X: 2. X:144-X:1-X:0-X:1-X:27-X:0-X:5-U:X \_IX Exhibit 5 Serial No. 10/717,394 page 37 of 46

X887alvss.lvs

OCCURRENCE NAME

X1144-X11-X10-X11-X127-X10-X1402-U21\_OUT

UN-MATCHED \*\*\*\*

OCCURRENCE NAME

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-U28\_IN
2, Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-U27

DEV331157 INV

DEV354677

N

DEV296636 NAND

X1144-X11-X10-X11-X127-X10-X1402-U21\_

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DISCREPANCY

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X1144-X11-X10-X11-X127-X10-X10-ZN, X1144-X11-X10-X11-X127-X10-X1402-U27\_

OCCURRENCE NAME

X1144-X11-X10-X11-X127-X16-X15-U28\_IM2

x=1801.20 Y=-1459.80 X1144-X11-X10-X11-X127-X10-X15-UD8\_12

DEV332987 NOR

X1144-X11-X10-X11-X127-X10-14\_CC X1144-X11-X10-X11-X127-X10-X15-02 X1144-X11-X10-X11-X127-X10-X15-U27\_IN
2, X1144-X11-X10-X11-X127-X10-X15-U30

2. X5164-X51-X50-X51-X527-X50-X55-007

DEV320281 INV X=1829.90

NODE X1144-X11-X10-X11-X127-X10-X1402-U21\_OUT

UN-MATCHED DEVICES-

X1144-X11-X10-X11-X127-X10-15\_QN, X1144-X11-X10-X11-X127-X10-X15-U27\_IN 2

THE TANK - WATCHED ----

2DEV294753 SDW X=1797.10

Y=-1459.80

X=1834.95 Y=-1459.80 X1144-X11-X10-X11-X127-X10-15\_QN; X1144-X11-X10-X11-X127-X10-X15-U27\_IN

OCCURRENCE NAME X1144-X11-X18-X15-U21\_OUT ?DEV259615 XOS N 7DEV259505 MOS P 7DEV259484 MOS N ----?DEV259506 NOS ? ----OCCURRENCE NAME X1144-X11-X18-X17-U21\_OUT Xi144-Xi1-Xi8-14\_CO, Xi144-Xi1-Xi8-Xi5-U27\_IN2 X1144-X11-X18-X15-U21\_OUT PDEV296582 NAND Xi144-Xi1-Xi8-Xi7-U27\_INZ, DVDD Xi144-Xi1-Xi8-Xi7-U21\_CUT Xi144-Xi1-Xi8-Xi7-U27\_IN2, 2Xi144-Xi1-Xi8-Xi7-U21\_U7\_DRAIN, Xi144-Xi1-Xi8-Xi7-U21\_OUT ?DEV259483 MOS N ----X1144-X11-X18-16\_CO, X1144-X11-X18-X17-U27\_IN2 ?DEV296576 NAVD X1144-X11-X18-14\_CO, DGND X1144-X11-X18-16\_CO, DVDD, X1144-X11-X18-X17-U21\_OUT X1144-X11-X18-X17-U21\_OUT 8-X15-mX9 8-X17-m411 X1144-X11-X18-16\_CO, 8-X17-m49 8-X17-m412 ₩ = 3.00 W = 3.00 \*\*\*\*\*\*\*\*\*\*\* (LIST UP TO 100 ) L = .35 L = .35 X1144-Xil-Xi X1144-X11-X1 X1144-X11-X1 X1144-X11-X1 X1144-X11-X5 123675 Tue May 14 12:34:29 2002 123029 .... UN-MATCHED ..... THE UN-MATCHED \*\*\*\* SCE OM-MATCHED .... ON-KATCHED CSN-WATCHED UN-KATCHED .... UN-MATCHED Page \*\*\*\*\* 16

70EV296640 NANO
X1144-X11-X10-X11-X127-X10-X15-U21\_OU
T, X1144-X11-X10-X11-X127-X10-X15-U27\_EN
X1144-X11-X10-X11-X127-X10-X15-U27\_EN

OCCURRENCE NAME Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-i5\_CO

DEV339583 INV

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-i5\_CO, Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-U21\_CU T

THE CALL OF THE PARTY OF THE PA

7DEV294753 SDW

X=1797,10

Y=-1459.80

x1444-X11-X10-X11-X127-X10-X15-U21\_OU
x, X1144-X11-X10-X11-X127-X10-X16-X16-CO,
X1144-X11-X10-X11-X127-X10-X15-U27\_IN
2

DEV362702 INV X=1795.70 X=1459.80 X1144-X11-X10-X11-X127-X10-15\_CO, X1144-X11-X10-X11-X127-X10-X15-U21\_CU T

OCCUBRENCE NAME X1144-X11-X10-X11-X127-X10-X15-U21\_OUT UN-MATCHED .....

.... UN-KATCHED ....

7DEV318343 PUP X=1797,20

Y=-1465.40

736196,

Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi5-U27\_IN X1144-X11-X10-X11-X127-X10-X15-U21\_OU T, X1144-X11-X10-X11-X127-X10-14\_CO,

X1144-X11-X10-X11-X127-X10-14\_CO, X1144-X11-X10-X11-X127-X50-X15-U27\_IN

---WITH UN-MATCHED DEVICES--

--- NODE X1144-X11-X10-X11-X127-X10-X15-UZ1\_OUT

Edla DEVICE MATCHING SUMMARY BY TYPE DISCREPANCY POINTS SURMARY TOTAL SUB-TYPE 15 MATCHED NODE TO UN-MATCHED LAYOUT AND SCHEMATIC DEVICES 5 DISCREPANCY POINTS REPORTED TOTAL DEVICE UN-MATCHED DEVICE

X887alvss.lvs

?DEV259638 MOS P

X1144-X11-X1

.... UN-MATCHED .....

V = 3.00 L = 3.5 PDEV265327 MOS N X1144-X11-X1 :	-Xi402-mMS il-Xi27-Xi il-Xi0-Xil il-Xi0-Xil  "	, DVDD, 5 5 0-Xi0-Xi1-Xi27- 0-Xi402-U21_ 27-Xi0-10_ZN Xi1-Xi402-U2 Xi144-Xi1-Xi	18-X14-U27_IN2) X18-X14-U21_U7_DRAIN, X18-X14-U21_OUT L = .35 D = X114-X11-X1	i8-i3_CO, DVDD, i8-xi4-U21_OUT L = .35 OS N X1144-X11-X1	X18-13_CO, DGND, -X18-X14-U21_U7_DRAIN 0	-X18-X14-U21_OUT, -X16-13_CO, -X18-X14-U27_IN2 -X0S N X1144-X11-X1	**************************************	18-X15-U27_IN2, X18-X15-U21_U7_DRAIN, 18-X15-U21_OUT 18-X15-U21_OUT 18-X15-U21_OUT 18-X15-U21_OUT 18-X15-U21_OUT 18-X15-U21_U21_U21_OUT 18-X15-U21_U21_U21_U21_U21_U21_U21_U21_U21_U21_	8-Xi3-PM12 Xi14-Xi1-Xi8-14_CO, DVDD, Xi14-Xi1-Xi8-Xi2-121_CVT W = 1.00 W = 5.00 109725616 MOS N Xi144-Xi1-Xi 25735616 MOS N Xi144-Xi1-Xi
***** UN-MATCHED *****	···· ON-MACCHED	10-X1(07-121_OF NAVCHED	····· QRHOPAN-NJ	GEHOLVR-ND	····· UN-KATCHED ·····	UN-MATCHED	TO THE TANK OF THE	••••• DN-NAPOHED	···· Cahoray-ku

**Exhibit 5**Serial No. 10/717,394
page 39 of 46

X887alvss.lvs

X887alvss.lvs

?DEV179263 KOS N

Tue May 14 12:34:29 2002

PDEV294766 SDW X=1054.30 7DEV213944 MOS N X=1047.30 Y= 7DEV181503 MOS N X=1771.90 Y Y=-1459.80 X1144-X1-X10-X11-X127-X10-X15-U27\_IN 2, ALGND, 7589849 W = 1.20 DEFFOR-xi144-xi1-xi0-xi1-xi27-xi0-i4\_CO. xi144-xi1-xi0-xi1-xi27-xi0-xi5-U21\_OU T, 7589849 X1144-X11-X18-14\_CO, X1144-X11-X18-X15-U21\_OUT, X1144-X11-X18-X15-U21\_OUT, W = 1.20 L = .35 7DEV215948 MOS N X1144-X11-X18-16\_CO, X1144-X11-X18-X17-U21\_OUT, X1144-X11-X18-X17-U21\_OUT, X1144-X11-X18-X17-U21\_OUT, 7DEV213945 MOS N X=1048.15 Y= PDEV294765 SDW IN2, ALGND, 2589994 7DEV181504 WOS N X=1772.75 Y Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi402-U21\_ OUT, Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-i0\_ZN Xi144-Xi1-Xi0-Xi1-Xi27-Xi0-Xi402-U2 PDEV294754 SDM X1144-X11-X18-14\_CO, X1144-X11-X18-X15-U27\_IN2 X1144-X11-X18-X15-U21\_OUT X1144-X11-X18-16\_CO, X1144-X11-X18-X17-U27\_IN2 X=1047.30 Y=-1068.10 X1144-X11-X18-X17-U21\_OUT. X1144-X11-X10-X11-X127-X10-X1402-U27 W = 1.202589994 Y=-1068.10 Y=-1459.80 Y=-1043.10 Y=-1043.10 Y=-1434.80 E = .35 L = .35 L = .35 L = .35 2593433 DGND 2593222

9

PENSON 9 100 P

X1144-X11-X10-X11-X127-X10-14\_CO, X1144-X11-X10-X11-X127-X10-X15-U27\_IF

X=1798.55

X1144-X11-X10-X11-X127-X10-:4\_CO. ALVDD, 736196

£ a .35

YUEV318343

è Del

Y=-1465,40 Y=-1043.10

7593435 X=1097.70 X1144-X11-X18-13\_CO X1144-X11-X18-X14-U27\_IN2 X1144-X11-X18-13\_CO

X1144-X11-X18-X14-027\_IN2.

CONC 7597435

7DEV215959 MOS N %=1098.55 Y=

X1144-X11-X18-X14-U21\_CUT. W = 1.20 L = .35

Y=-1043.10

X887alvss.lvs

X=1054.40 v PDEV318913

W = 3.00

£ w .35 1 = .35

755948, X1144-X11-X18-14\_CO

V=-1048.70

X887alvss.lvs

7DEV294767 SEW X=1097.70

X=1097.70 Y=-1043.10 X1144-X11-X18-X14-U21\_CUT

7DEV215947 MOS N

X=1054.30

xi144-xi1-xi8-xi5-U27\_IN2. W = 1.20

DGND

£ = .35

X1144-X11-X10-X11-X127-X10-10\_ZN. X1144-X11-X16-X11-X127-X10-X1462-027. X1144-X11-X10-X11-X127-X10-X15-077\_28 Exhibit 5 Serial No. 10/717,394 page 40 of 46

7DEV318374 PUP X=1772.00

Y=-1440.40 Y=-1465.40 Y=-1465.40

1 = .35

2. ALVDD, 236196

W = 3.00 PDEV33980 MOS P X=1772.00 Y

X1144-X11-X10-X11-X127-X10-10\_EN. ADVDD, 737481

L = .35

d SON

Y=-1640.40

PDEV318894 PUP

Y=-1073.70

X1144-X11-X18-16\_CO. DVDD. 754765, X1144-X11-X18-16\_CO X1144-X11-X18-X17-U27\_IN2

754765

XCS P

XCS P

X1144-X11-X18-X17-027\_IN2, DVDD

Y=-1073.70 Y=-1073.70 X1144-X11-X10-X11-X127-X10-X1402-U27, IN2, AEVDD, 737481 E = .35

Y=-1440.40

X1144-X11-X18-14\_CO, DVDD, ?55948 W = 3.00 L = .35 (1144-X11-X18-X15-U27\_IN2

Y=-1048.70

054.40 Y=-1048.70 44-X11-X18-X15-U27\_IN2, DVDD,

= 3.00

L = .35

22A3G2

7CAPPS 1842.10

?CAPPS Y=-162.65 7CAPPS Y=-148.10

PCAPPS Y=-162.65 Y=-162.65

SAEG.

DEV89 ?CAPPS KW-1382.30 Y=-148.60 72.60 Y=-148.00 7CAPPS Y=-148.10 ?CAPPS Y--:48 10 7CAPPS Y=-148.00 PCAPPS Y=-148.00 YCAFPS Y=-148.10 7CA9PS Y=-148.10 7CAPPS Y=-148.10 Exhibit 5 Serial No. 10/717,394 page 41 of 46

SSAFEL

X1144-X11-X18-13\_CO, DVDD, ?55949 W = 3.00 L = .35 ZEV318914 FUP X=1097.80

Y=-1048.70

3.00

£ = .35

?CAPPS Y=-162.80

7CAPPS Y=-162.80 7CAPPS Y=-162.80

7CAPPS 0 Y=-162.70

7CAPPS Y=-162.70

4-X11-X18-X14-U27\_IN2, DVDD

?CAPPS

?CAPPS Y=-162.70

7CAPPS Y=-162.70 ?CAPPS Y=-162.70

?CAPPS Y=-162.70

?CAP9S 15 Y=-162.70

55.70 Y=-148.00

?CAPPS Y=-148.00

7C&PPS 7-148.00

7CAPPS Y=-147.95 ?CAPPS Y=-148.00 7CAPES -148.00 ?CAPPS Y=-162.70

?CAP?S 95 Y=-162.70

X887alvss.lvs

X=-917.75

7CAPPS Y=-147.95

Y=-147.95

PDEV10

DEV104 7CAPPS X=-427.75 Y=-133.40

X887alvss.lvs

X887alvss.lvs

79487 7DEV12 PDEV12 7DEV106 X=-384.95 75EV130 7 PDEV12 7DEV107 PDEV129 PDEVII PDEV110 X=-1372.60 X=-384.95 DEV113 ?CAPPS X=-1372.60 Y=-133.30 X=-41.05 PDEV107 PCAPPS X=-105.55 Y=-133.40 17 7CAPPS 95.85 Y=-133.30 6 ?CAPPS 44.95 Y=-133.30 7CAPPS Y=-133.25 7CAPPS 5 Y=-133.40 7CAPPS 0 Y=-118.60 7CAPPS Y=-118.70 ?CAPPS Y=-118.70 7CAPPS Y=-118.70 7CAPPS Y=-118.70 7CAPPS Y=-133.25 7CAPPS Y=-133.30 ?CAPPS 5 Y=-133.30 7CA2PS Y=-133.40 ?CAPPS 7CAPPS Y=-118.60 7CAPPS 0 Y=-133.30

\*

LVS SUMMARY (REPEATED)

THE REST OF UN-MATCHED LAYOUT DEVICES ARE NOT LISTED

X=-944.85 794897 70EV158 TARGE 7CAPPS Y=-103.90 7CAPPS Y=-103.85

7CAPPS Y=-103.50

7CAPPS 5 Y=-103.90

7DEV151 7CRPS X=-1372.60 Y=-103.90 N=-1166.45 Y=-101.90

7DEV149 7CAPPS X=-1392.00 Y=-103.90

79489

PCAPPS Yn-104.00

794890 PDEV148

7CAPPS Y=-104.00

754889

X=-384.95 794888 2DKV144 YEAPPE 194.00

3CVbb2.

PDEV14 x = -427.75X=-917.75 7CAPPS Y=-118.55

7CAPPS Y=-118.55

X=-944.85

7DEV136 7CAPPS X=-695.85 Y=-118.60 7CAPPS 5 Y=-118.60

PDEVIJ **PDEVI39** 

Y=-118.60

794881

DEV135 ?CAPPS X=-1144.95 Y=-118.60

Exhibit 5 Serial No. 10/717,394 page 42 of 46

AND WARNING MESSAGES	** CHECK ALL ABOVE DISCREPANCY	""/W" SCHEMATIC AND LAYOUT MAY NOT MATCH	***************************************
: :	:	;	:

	- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
Sc 'M' Sc	SUB-TYPE
HEMATIC	Secretary Secretary
ND LAYOU	TOTAL SCH. 122675 123029 123029 148 247 1 403 6 6 9 12 4 24 17 17 17
schematic and layout may not match	DEVICE LAY. 122676 123029 123029 1403 247 1 403 6 6 9 12 24 24 24 24 24 24 27 170
MATCH	UN-MATCHED SCH. 10 10 00 00 00 00 00 00 00 00 00 00 00
::	DEVICE LAY.

2

Listing for John. Vanhoy MINISEA OF IN-HANCHED SCHEMATICS BUTTES 5
MINISEA OF IN-HANCHED LAYOUT BUTTES 1359
MINISEA OF IN-HANCHED LAYOUT BUTTES 13608
MINISEA OF IN-HANCHED LAYOUT BUTTES 13608
DISCREPANCY POINTS STORMAY DEVICE MATCHING SUMMARY BY TYPE LVS DEVICE MATCH SURPLARY 15 MATCHED NODE TO UN-MATCHED LAYOUT AND SCHEMATIC DEVICES Tue May 14 12:34:29 2002

Page 25

**Exhibit 5**Serial No. 10/717,394
page 43 of 46

Nodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Labels	247		0	0	0	0	0	0	Н		0	0	0	Н	0	45	2413	94	0	Н	0	0	0	0	0		0	0	7775	0	0
Ellipses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paths		12			Ŋ	m	11513	2	98420	П	0	0	m	53811	0	0	0	0	0	0	0	0	0	0	0	0	T	1	52	0	0
Polygons	Н	4	9	1693		0	2388	0	228	0	13	0	0	113	0	0	0	0	2	23	31	1354	86	1354	0	50	2585	3	2	87	. 9
Rectangles	10	35	88	54	083	730	31753	083	N	rI	77	2	123135	15	11	0	0	0	$\sim$	4	73	44	$\sim$	44	4	578	551	704	O)	154	σν
Layer #	0	r-1	7	4,	2	7	89	6	10																				63		

**Exhibit 5**Serial No. 10/717,394
page 44 of 46

SSAT

LVS with Stamps.

Pads

MDRC

DRCFP

DODACT Seal - Cine

input job type = [genlyr] LPEC LPEIG LPEI XOR2 XOR1 PNCHKFP. PNCHK LPEIGSD GENLYR ANTENNA ALLDRO LPE (Far. - MYS ga? caps) lumped to LPE (Pr. + MYS gate is norm, caps) to LPT. (Pr. \* this) Cr s coupled inc. Par so plane general system or plane general my liced general inc. Inc. Pros (Pine Pine) my liced general inc. Xer of the layers in an 140 dptm size.
Xer of the layers in the As to kill)
Ker of the button to kill an only.
LPE (Parabilic cap only) lumped in
LPE (Far - MYS gen (aps) lumped in Dre's with genelayars output. All Dre's for Ch. Antennae checks.

ed to gnd. Grd.

otm strm.

file B>

DERC

Drc and ERC

OPSHRTS (Cpens/Shores only) Esd and Latchup checks. Manufacturing drcs. Drc's only Standard Pitch Drc's only Fine Pitch Pads

Guardband/puniacting checks.

Latchup ERC(Ercs cnly)

DRC's and LVS with itimps.

DRCF DLVSS OPSHRTS GBCHK ESDLAI

7,443 4560 size file

Y-2565 Y2565

4628b

X-2780

X 2780

Exhibit 5 Serial No. 10/717,394 page 45 of 46

(0)	system	: COS:::
(1)	Master Sublock <schematic></schematic>	[M9897ac   1]
(2)	Cdl Filename	[9887ace] .031]
(3)	Primary Structure	[9887A]
(4)	Stream file name	[9887a.glm]
( 5)	Output Stream file name	[93674.922]
( 6)	Power Nodes	(COM COMO DOMO CON COMAN)
(7)	Ground Nodes	[ACM: AT TO DEND ORD POND SUBCED]
(8)	Keep Temporary data <yes no="" smart="">[YES]</yes>	> [X:2S]
( 9)	Device Size Checking	(36.8)
(10)	Optional extra parameters	
(11)	Save Project file	
(12)	Help	
(13)	Abort program	
(14)	Exit	
	Enter number <0-14>:-	

**Exhibit 5**Serial No. 10/717,394
page 46 of 46